Recombinant Mouse Prdx1 Protein, Myc/DDK-tagged

Cat. No. Prdx1-5101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length peroxiredoxin 1 (Prdx1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Thiol-specific peroxidase that catalyzes the reduction of hydrogen peroxide and organic hydroperoxides to water and alcohols, respectively. Plays a role in cell protection against oxidative stress by detoxifying peroxides and as sensor of hydrogen peroxide-mediated signaling events. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H2O2. Reduces an intramolecular disulfide bond in GDPD5 that gates the ability to GDPD5 to drive postmitotic motor neuron differentiation
Molecular Mass	22.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Prdx1 peroxiredoxin 1 [Mus musculus (house mouse)]
Official Symbol	Prdx1
Synonyms	PRDX1; peroxiredoxin 1; peroxiredoxin-1; thioredoxin peroxidase 2; osteoblast specific factor 3; osteoblast-specific factor 3; macrophage 23 Kd stress protein; macrophage 23kDa stress protein; macrophase stress protein 22kDa; macrophase stress protein 23 kd; proliferation-associated gene A; macrophage 23 kDa stress protein; Trx dependent peroxide reductase 2; thioredoxin dependent peroxide reductase 2; thioredoxin-dependent peroxide reductase 2; PAG; OSF3; Paga; PrxI; TDX2; TPxA; prx1; MSP23; NkefA; OSF-3; PrdxI; Tdpx2
Gene ID	18477
mRNA Refseq	NM_011034
Protein Refseq	NP_035164
UniProt ID	P35700

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